COAL AGE

With Which Is Consolidated
The "Colliery Engineer" and "Mines and Minerals"

INDEX TO VOLUME 46

January to December, 1941

NOTE-The articles and references in this index have been classified under leading sub-	Anthracite Man 80	Employees' representatives named by U.M.W., Aug
jects or topics, as far as practicable, and should be sought under such heads, which,	Anthracite burner standard issued, May 89 Anthracite Industries Laboratory grant-	Guffey-Vinson Act is working smoothly, Jan
together with all unclassified matter, are ar-	Average annual U. S. sales of anthracite	Hearing on price ceiling under way, Oct. 158 Hearing on proposal for maximum coal
ranged alphabetically. Illustrated articles, or cuts standing by themselves are indicated by	in 1931-40 (table), May 86 Bootleg ordinance ruled void by New	prices to be held, Sept
an asterisk (*). The subject matter of editorials will be found classified under the sub-	York magistrate, Feb	Consumers' Counsel, Aug 86
ject with which they deal and marked (e). Many titles of articles are abbreviated, the	cite engineers, Aug	Moves to abolish abuses, Dec 120
aim being to give prominence to important words.	cite operators, June	President asks Congress for operating funds, May 82
	Financial status of anthracite industry	Refuses relaxing of agency regulations, Aug
	is improved in 1940. L. C. Madeira, III, Feb	Bituminous Coal Research, Inc.
A	divorce from traditions. J. B. Warri-	Leaders in coal research meet at Bat-
Accidents	ner, Apr *90 Gas manufactured from anthracite,	telle, May*84 Stove makers support research to im-
Accident frequency rate for haulage is 220. C. L. Lutton, Aug 56	June	prove coal heating, Sept
Acmar mine blast kills eleven, Aug 91 Beckley blast kills seven, Jan 90	production, Feb	telle Institute, Apr*110
Bicknell explosion report, July 96 Carswell mine explosion, Feb 130	Aug 90 Output wanes, Aug 96	Blasting
15 die in Kentucky mine blast, Nov 82 How to classify this accident? Sept 61	Price ceiling for anthracite is set, then	Receptacles in which shotfirers and min- ers can carry explosives into coal
Indiana mine blast kills 14, June 106	revoked by Henderson, Oct 148 Production by months	mines, Oct
Koppers Co, cleared in Carswell blast,	Feb. 110, Mar. 86, Apr. 106, May 80, June 90, July 85, Aug. 72, Sept. 74,	nection key, Jan*69 Sheathed explosives reported on by Brit-
Apr 117 Major causes of coal-mine injuries and	Oct. 142, Nov. 73, Dec	ish Research Board, Sept *76
preventive measures, Dec	Uptrend in anthracite prices studied by	Briquets
Monthly fatalitiesJan. 104 Feb. 130, Mar. 109, Apr. 131, May 98, June 114, July 96, Aug. 96, Sept. 91,	OPACS, Aug 89 Wage fight settled, June *89	Production of coke briquets and packaged fuel gains, July 94
Oct. 175, Nov. 100, Dec	Anthracite Conference of Lehigh University, June *71	Texas lignite mine develops method of briquetting, Nov*51
Nelms disaster report—Bureau of Mines, Feb	sity, duite	Bureau of Mines
1940 statistics on accidents. R. R. Say-		Civil service test to be held for federal
Raleigh Coal & Coke accident investiga-	В	mine inspectors, Aug 92 Consulting group named on mine inspec-
tion, Mar 90 Secretary of N.C.A. deplores federal	Barge Shipping	tion, Sept
mine inspection bill, Mar 90 Seven men killed at United Electric	Trolley limits barge drift at tipple on	Feb. 112, Mar. 100, Apr. 132, May 98, June 113, July 86, Aug. 86, Sept. 81,
plant, Mar 94 Sonman blast laid to lax safety measures,	Kanawha, Apr*102	Nov. 82, Dec
Jan 98 Tennessee Coal, Iron & Railroad Co.	Battelle Memorial Institute	Mines Safety Board, Dec 70
blast, July 96	Laboratory facilities being expanded, May 97, Aug?	
American Chemical Society	Big Sandy Elkhorn Coal Mining Institute	C
Division of Gas & Fuel Chemistry meeting, Oct	Election of officers, Apr 112	
American Coal Foundation	Pikesville, Ky. meeting, Apr*112	Canada's coal mines listed as essential
Offers cooperative plan for promoting	Bituminous Coal	services, July
Offers cooperative plan for promoting solid-fuel uses. Oct	Appalachian bituminous conference in	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr*118 Appalachian wage contract signed by	Canadian miners cost-of-living bonus
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov. 89 Canadian Institute of Mining & Metallurgy Edmonton meeting, Nov. *95
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov. 89 Canadian Institute of Mining & Metallurgy
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov. 89 Canadian Institute of Mining & Metallurgy Edmonton meeting, Nov. *95 Central Pennsylvania Safety Association
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov
Offers cooperative plan for promoting solid-fuel uses, Oct	Appalachian bituminous conference in New York, Apr	Canadian miners cost-of-living bonus boosted, Nov

		The board has been positive to machine	
onveyors	Insulators made of discarded pump valves, Jan	Face boss has key position in mechan- ized bituminous mining. J. R. Foster,	
Avella, Pa. mine controls draw slate by conveyor loading and systematic tim-	Less copper is installed yet line loss is	Apr	*81
bering. Claude Ferguson, Mar *4	7 lower, Sept*6 Loading efficiency is promoted by main-	tion held in state of Ohio, Aug. 58,	
High Point mine doubles tons per man with conveyors. George Henderson,	taining good voltage, Apr 6	Sept. *62, Oct	126
Jan	house units. June*8	First grade mine foremen's examination —Pennsylvania, Apr. 4, 1939, Jan. 66,	
Michigan thin-seam mine effectively pioneers conveyorization. Charles	Motor characteristics discussed by Southern Illinois Electrical Group,	Feb	96
Lambur, Jr., Sept*4 Overload protection for power distribu-	Jan 9	by falls of barometer or rock, Oct	125
tion system prevents costly delays in	Overload protection for power distribu- tion system prevents costly delays in	Pennsylvania, 1941, Sept. 63, Nov Mine foremen's examination, Iowa, June	65
conveyor mining. H. P. Chandler, May*5	conveyor mining. H. P. Chandler,	11-12, 1940, Jan. 67, Feb. 96, Mar	71
May	May	Mine foremen's examination questions, Pennsylvania, Apr. 8, 1941, Aug	59
	Power supply and maintenance prac-	Question on air moved and power	101
D	tices continue to improve, Feb *7 Pumping units facilitate movement of	7 needed, Oct	124
	transformers, May *7	o ers can carry explosives into coal	104
Defense Gould, G. B. named as advisory consult-	"Radio" sets provide mine communica- tion via trolley at Cliff mine, I. A.	mines, Oct	124
ant on coal prices in Fuel Section,	Given, Jan*5	Zona of mine omerans. 11. 13. 14010;	*72
Aug. 89, Sept*7 Ickes named Coal Coordinator; Gray	Resistance welding lessens shaking pan		
made Acting Director, Dec*10 Mineral economists sought by the gov-	repairs at Hudson Coal, Jan*5 Safety device for electric switch designed		
ernment. July 9	g to prevent burns, Feb *9		104
OPACS studies uptrend in anthracite prices, Aug.	Safety fused junction box for mechanical mining, Nov*7	First shipment of Illinois coal to lakes via Chicago docks under new rate,	
Pipe line planned to cut oil shortage,	Safety shooting reel requires use of con- nection key, Jan*6	Aug	*70
Service men essential to defense work	Shovel cable handling eased by skid,	advises on car policy June	90
may be released, July !	Oct*13 Shovel-dipper electric heating units cut	Seaboard Air Line Ry. wins fight against	117
	wintertime losses. J. W. Bulfington.	price fixing provisions, Apr West Kentucky wins decision in rate	114
United Mine Workers to raise defense fund, Aug.	Sept. *: Single-conductor cables used on cutters	controversy, Mar	103
Tunti, Aug.	and drills, Mar	Fuel	
Drainage	Spiral commutator grooves improved	Breakdown of mineral-raw-material pro-	
Eastern Ohio No. 8 field, Oct	maintenance, Jan	duction 1937 (chart), June	73
by sump clearance, Sept	Illinois mines, Aug*	1	
Keep water out of mine, but, should it enter, get it out again as fast as pos-	Transformer movement facilitated by pumping unit, May*	G	
sible, June	Trip-length communication makes for	Gas manufactured from anthracite, June.	115
Test hole which leaked gas grouted from coal bed, Jan*	safety, Feb*10	Great Britain	
Water acid eats out pumps and mains,	Electrification	Coal Mines Act is revised, Sept Great Britain Research Board reports on	
Dept.	Eastern Ohio No. 8 field, Oct	rock-ducting, roof support, haulage,	
Diamond core drill fittings standard re-	Engineering Index ready, Aug	Sept	74
vised, July	99 Engineers	н	
	Examination questions, steam hoisting engineers, Illinois, 1940, Mar	0	
E	Hudson job training embraces both su- pervisors and workers. Cadwallader	Harlan Mining Institute	
L	Evans, Jr., Apr	Observes anniversary of inception of mining, Sept	81
Eastern Ohio Coal Mining Institute	Industrial machinery men needed by OPA, Dec		
Bellaire, Ohio meeting, July*	Industry and schools must build men for	Ctantian point in laws a solution in light	
Economics	leadership in ideas. P. B. Bucky, Apr. * Job-training survey shows few mines	ed by closed fist, May	*69
Fuels shortage discussed at A.I.M.E.	with comprehensive plans, Apr * Mining-school survey shows coal still	15	
Oil boom in Illinois, Aug	80 in student doghouse, Apr	\mathbf{I}	
Pipe line ruled against by S.P.A.B., Dec	Summer courses broaden economic hori- zons of mine officials, H. E. Nold,	Illinois Coal Preparation Engineers &	5
Pipe line planned to cut oil shortage,	Apr*	73 Chemists	8194
Sept. Proposed pipeline for oil, Sept. (e)	79 What can schools and industry do to arouse student interest? D. L. McEl-	Desoto, Ill. meeting, Dec	-101
St. Lawrence project again attacked by	roy, Apr*		
St. Lawrence project called "tragic blun-	Examinations	Boat trip meeting, July Election of officers, Dec	113
der" by secretary of National Coal Association, Feb	Anthracite foremen and assistants exa-	Report of meeting, Dec	*110
St. Lawrence project unsound, director	mination, Oct. 126, Nov	Illinois Society of Coal Preparation Engi-	
of Anthracite Institute says, Feb 1	Pennsylvania, 1940, Apr. 97, May 67.	neers & Chemists	
Electricity	June 81. July	Discusses crushing in coal preparation.	156
Beware all electrical currents for almost none are safe, July	examiners, May	Herrin, Ill. meeting, June	. 114
Cable hangers made of old belt, Apr*1	04 tion held in state of Ohio, Aug. 58.	Indiana Coal Mining Institute	
Cable protected by rubber-belting cushion, Oct	Sept. *62, Oct. 126, Nov	Election of officers Jan	. 82
Cables purchased in sections with ter-	Illinois, 1940, Mar. 70, Apr. 96, May	Report of Evansville meeting, June 49 Report of Terre Haute meeting, Jan	*82
minals soldered on, Oct	riest class mine manager's examination.	19 Inchorage of Torre Transfer	
Illinois Mining Electrical Group, Mar. Charging equipment installed on battery	98 — Pennsylvania, Apr. 4, 1939, Jan. 66, Feb	96 T .	
locomotives, Apr	Feb. Mine examiners' examination, Illinois,		
Chief mine electricians' examination, Pennsylvania, 1940, Apr. 97, May 67,	Mine foremen's examination, bitumin-	65 Labor	
June 81, July	63 ous, Pennsylvania, 1941, Sept. 63, Nov	Advanced training course for Illinois mine examiners, Aug	. *78
Collector-ring assembly altered to im- prove shovel, July	Mine foremen's examination, Iowa, June 11-12, 1940, Jan. 67, Feb. 96, Mar	71 Alabama strike settled on basis of me diation board findings, Nov	
Control board installed with more room in back, Oct	Mine foremen's examination, Pennsylva-	Anthracite wage fight settled, June	. *85
Driving of ground rods eased by ham-	Questions asked applicants for second	Anthracite's future lies in men and di vorce from traditions. J. B. Warriner	-
mer and anvil unit. Nov Eastern Ohio No. 8 field electric strip-	nois, 1940, May 66, June	oo Apr	. *91
ping power and maintenance, Oct	Questions, first class mine managers'	Now York Apr	.*115
ping power and maintenance, Oct* Electrical power output, Jan. 78, Feb. 110, Mar. 86, Apr. 106, May 80, June 90, July 85, Aug. 72, Sept. 74, Oct.	examination, Illinois, 1940. Feb Steam hoisting engineers, Illinois, 1940,	Appalachian wage agreement is a tri	-
90, July 85, Aug. 72, Sept. 74, Oct. 142, Nov. 73, Dec.	Jan. 66, Feb. 97, Mar	Appalachian wage contract signed by	У
Electrolytic corrosion stopped with dry-		Southern operators, Aug Appalachian wage controversy ende	d 6
disk rectifier, June Emergency heater for water tank made	86 F	with \$1 wage rise; to dicker on differ	
from strip units, Mar	74	ential in South, May Appalachian wage controversy settle	
Fibrous glass insulation discussed at A.I.E.G. meeting, Mar	92 Face Preparation	by Southern bituminous coal operators	S,
Five thousand volt cables terminate in	Eastern Ohio No. 8 field, Oct) ["
Good secondary mine voltage. F. W.	*64 Loading efficiency depends on what hap- pens before and after machine moves	modern coal mining. J. B. Morrov	V.
Richart, Sept	the coal, Apr	59 British Columbia workers to receive wa	er .
Oct	Ditaminous District of Pennsylvania	78 bonus, Mar. (e)	. 12
Grounding practices in coal mines outlined and analyzed. P. M. Barlow,	Foremen	Captive miners awarded unemploymen	nt
July	54 Anthracite foremen and assistants ex-	pay, Apr	is
	*72 Examination for first and second class	64 accepts Roosevelt arbitration plan Dec.	n,
Improving low power factor helps to reduce mine operating cost. F. W.	Ioremen, Ohio, Nov	64 Captive-mine strike called off by Lewis	S,
Richart, Dec	*55 Examination questions, mine foremen,	Nov.	9

Captive miners to receive unemploy- ment relief? Mar	М	Combatting hazards connected with
	Maintenance	mine mechanization. B. J. F. Conrad, Nov. 62 Conveyor loading in Avella, Pa. holds
Director of Selective Service seeks help in finding jobs for discharged draf-	American Mining Congress awards prizes for operating kinks, June *83 Boom maintenance stepped up by using	drawslate and reduces operating costs. Claude Ferguson, Mar
tees, Oct	common pipe in rebuilding. M. A. Walsh, Nov	Conveyor mining for thin-seam mine ups output. Charles Lambur, Jr.,
Apr. *81 Fitting the worker to the job. O. G.	mine applications, Feb 100	Sept. *46 Conveyors with hydraulic breakers fea- ture Washington shaft mine. I. A.
Van Campen, Nov	Central machine shop increases Sin- clair Coal efficiency. Charles Lam- bur, Jr., July	Given, May*59 Eastern Ohio No. 8 field shaker-con-
pervisors and workers. Cadwallader Evans, Jr., Apr*79 Illinois governor urges peace, Feb*120	Circle cutting machine is hand-made, May*74	veyor mining, Oct
Industry and schools must build men for leadership in ideas. P. B. Bucky,	Clutch installation eased by special lifters, Apr	ter, Apr. *81 Hazards incidental to mechanical load-
Job analysis fundamental in successful	toms, Oct	ing discussed by Inspectors at Blue- field, July
job-training program. O. G. Van Campen, Sept*43 Job-training survey shows few mines	ping, Oct*106	High-capacity track-mounted loading machines at Little Betty. I. A. Given, July*37
with comprehensive plans, Apr 75 Man power: not only hands, but heads	Expense-cutting maintenance ideas expounded at Southern Illinois Mining Electric Group meeting, Nov 74	High Point mine doubles tons per man with conveyors. George Henderson,
Management should make a full-time	Grease fittings on the shoes keep tiered threads free, Apr*99	Jan*39 Loader and shuttle cars produce 13 tons
study of facts and figures on wages, Aug. (e)	Greasing loading machines at the Kings mine. Guiney & Given, Mar *51	per man from pillars, Industrial mine. I. A. Given, Aug*51 Loader-conveyor slope delivers to
out-of-work benefits denied to employ-	Hardwood jack blocks made in sets, May*72 Hole cut in casting provides access to	washer at North Diamond, J. H. Edwards, July *40
ees of Tennessee Coal, Iron & Rail- road Co., July	rail bolt, Oct*136 Indiana Coal Mining Institute dis-	Loader sales and cleaning capacity up, conveyors at new high in 1940. W. H. Young & others, Feb*59
& Hour Division, Oct	cusses lubrication and maintenance at meeting, Jan	Loading efficiency depends on what hap- pens before and after machine moves
ers is opinion by U. S. Labor Depart- ment, Apr	Jig for reclaiming locomotive reel	the coal, Apr
motes safety and efficiency. O. G. Van Campen, Dec*52	cartridges, July*70 Light-weight V supports for shop work,	meeting), Mar
Recreation camp for children of Kop- pers mine employees opens, July 89	Apr. *104 Loading efficiency depends on good maintenance, Apr. 62	Sayreton, Ala. I. A. Given, Mar *39 Loading—percentage of man-hours em-
Southern and union soft-coal men dead- locked, June	Metallizing in repair shops of Hudson Coal. R. D. Hall, Sept*45	ployed in loading, auxiliary operations and supervision (table), A.M.C., June 40 Mining with mobile loaders, Eastern
separate bargaining, Nov. 78, correction, Dec	Old license plates utilized in numbering equipment, Jan	Ohio No. 8 field, Oct
Summer courses broaden economic horizons of mine officials. H. E. Nold, Apr. *73 Training men for mechanical mining is	crusher, Oct	meet market demands. Charles Lambur, Jr., Jan
discussed by Coal Mining Institute, Jan	Permissibility of construction equipment	One loader and one shuttle car equals fifteen tons per miner at Brophy mine, July
Tri-County Operators sign contract with United Mine Workers, Aug 90 Unemployment awards to idle Colorado	should be explained to maintenance men, Jan. (e)	Scooters serve loading machines in thin coal at Bergoo mine. J. H. Edwards,
miners fought by the Security Bureau, Sept	Priority rating accorded repair parts	May *52 Shuttle cars and bigger loaders in- crease tonnage at Monarch mine.
Unemployment benefits denied Colorado miners idle during wage negotiations,	—application form, Sept	Shott & Bottomley, May*39 Thin-seam Oklahoma mine increases
Aug. 86 Unemployment benefits for 1939 work suspension refused by Ohio Supreme	Pump used as drill tester: pump-test- ing oil heated, Mar*73	output with modern equipment. Gene Taylor, Sept. *37
Court, Aug 92 Unemployment pay awarded captive	Reducing waste by using cutting boards for packing, Mar*74	Time-study survey highspots value of effective coordination, Apr 57 Training men for mechanical mining is
miners, Apr	Rope wear can be reduced by proper rollers, Jan. *69 Screen plates used for racks over oil	discussed by Coal Mining Institute, Jan
refused by Court, Nov	spill cans, Mar	What 1940-41 has taught us about me- chanical mining—A.M.C., June 39
West Virginia Supreme Court, Dec., 114 Virginia men receive mining certifi-	flights, June	Merchandising Anthracite burner standard issued. May 89
cates, Jan. 105 Wage-hour ruling revised, July 91 Wage increases recommended for Nova	Smoking mandrel with torch frees it from babbitt, Apr 100	Dickson Coal Co. to market Link-Belt stokers, June
Scotia mines, Apr 126 Law and Legislation	Tilting rack for barrels eases handling, Apr	Draw-off and standby test of hot-water heater, June
Anti-bootleg law sustained, Mar 88 Bituminous Coal Act of 1937 extension	tighten driving; belt, June*86 Valves have identification tags, Jan 74	Heaters burn high-volatile coal with- out smoke, Apr
favored by advisory committee, Mar. 94 Bituminous Coal Conservation Act to be	Wheel removal facilitated by dolly, Oct. *136	sion, Feb
extended for two years, Apr 106 Coal and labor funds approved, Aug. 94 Coal Producers' Committee issues ap-	Wrench, adjustable spanner, Nov *72	regional meetings, Jan
Conservation Act, Apr	Management Anthracite's future lies in men and divorce from traditions. J. B. War-	Mar. *62 Production of coke, briquets and pack-
Guffey-Vinson Act extension is favored by the bituminous industry, Feb 49 Guffey-Vinson Act is working smoothly,	riner, Apr*90 Bituminous management must take	aged fuel gains, July 94 Trademarks to identify coal shipments,
Guffey-Vinson Act — move to extend.	leadership to protect future. Eugene McAuliffe, Apr. *88	Feb. *85 West Virginia Mining Institute turns at- tention to sales relations, July 92
Feb 109 How operations will be conducted under federal inspection law. J. J. Forbes,	Face boss has key position in mech- anized bituminous mining, J. R. Foster, Apr. *81	Mine Inspectors Institute of America
Inspection bill approved by Senate:	Foster, Apr*81 First class mine managers' examination, Illinois, 1940, Feb. 97; Mar. 70; Apr.	Election of officers, July
Mine inspection bill becomes a law,	96; May 66; June 81; Aug. 59 Hudson job training embraces both su- pervisors and workers. Cadwallader	July*74
June	Evans, Jr., Apr*79 Industry and schools must build men	Mining Methods Anthracite progresses in mining and preparation in 1940, Feb*71
Pennsylvania output control bill signed	for leadership in ideas. P. B. Bucky, Apr	Bituminous mines show improved prac- tices in 1940, Feb
by governor, Aug	with comprehensive plans, Apr *75 Mine managers' certificates, questions	Conveyor crews average nearly 16 tons per man at Clinton mine. W. B.
Sayers, Dec	asked applicants for second class, Illinois, 1940, May 66; June 80	Bannister, Nov. *57 Cutting through rock fault done with special aids, Feb
Lethbridge lignite beds narrow; coal cleaned by spirals. R. D. Hall, Mar. *65	Organization morale. O. G. Van Dampen, Aug. *37	Eastern Ohio No. 8 field mobile loader operation, Oct *60
Production in 1939, Apr	Summer courses broaden economic horizons of mine officials. H. E. Nold, Apr. *73	Eastern Ohio No. 8 field shaker-con- veyor mining, Oct
Texas lignite strip mine averages 19 tons	Apr. *73 What can schools and industry do to arouse student; interest? D. L. Mc-	Face preparation in Eastern Ohio No. 8 field, Oct*72 How block pillars in Pittsburgh Dis-
per man-day. Charles Lambur, Jr., Mar	Elroy, Apr*71 Mechanization	trict are drawn clean by machines,
Lowther, Thomas S. Mining Institute Studies altimeters, priorities and de-	Accurate records vital to mechanical mining efficiency, A. C. Green, Aug. *45	Kanawha mine hand loads onto conveyors. R. W. Tompkins, Mar
fense, Dec	Better safety records achieved with me- chanical mining. J. J. Forbes, W. J.	mine. F. A. Giver, Aug *51
Cutting machine lubricated through hole	Jenkins, J. D. A. Morrow, Apr*55 Big mine cars aid loaders, cut costs at Pittsburgh Coal. V. D. Hanson, July *47	Loading machines raine selectively at at Sayreton, Ala. I. A. Given, Mar. *39
Greasing loaders at the Kings mine, Guiney & Given, Mar *51	Bituminous mechanization gains added impetus in 1940, Feb	One loader and one shuttle car equals fifteen tons per miner at Brophy mine, July *56
	*	

Plan to mine coal in Ohio River bottom, Apr. 112 Scooters serve loading machines in thin coal at Bergoo mine. J. H. Edwards, May	Utah coal processing reported feasible, Feb. 1 Washer water is neutralized by lime at lake pump, July	65 Air	visory group formulates inspection olicies; Forbes named chief inspector, Oct
Shuttle cars and bigger loaders increase tonnage at Monarch mine. Shott & Bottomley, May		Ang re Ban	Hygiene Foundation elects officers, 100 ything that takes oxygen makes irespirable air, June
Two hundred tons with fourteen men using shuttle cars made from dump trucks. I. A. Given, Sept	Plans for speeding deliveries of maintenance parts and repair materials, Oct. Rating accorded repair parts—applica-	Bel p: Bev n:	Il mounted on cage top warns of ap- roach, Aug. *64 ware all electrical currents for almost one are safe, July
Election of Council, Aug	tion form, Sept. Status given repair and maintenance equipment, Aug. (e) 36, Aug	86 til Bla	ute and Pond Creek-Tug River Min- ng Institute safety meet, Nov*78 nckdamp is changing as time pro- resses, July
N	Radio" sets provide mine communication	f	ary air; ways that will keep mine air
National Coal Association Regional meetings consider promotion plan, Jan	via trolley at Cliff mine. I. A. Given, Jan	52 Car	rlap suited for brattice work by treat- tent with chemical, Jan
Secretary attacks mine inspection bill, Mar	Filter agent can be made from refuse, Apr. New Summerlee refuse-disposal tram-	Car	rs held on grades by spring dog. Mar. *78 t eyes on locomotive step for safety,
National Safety Congress Mine Section elects officers, Nov. 93 Mine Section meeting, Nov. *89	way. J. E. Howard, Dec	*72 Ch	Aug. *64 Ildren of Koppers miners to get clinic ervice, June
Natural Gas Coal and allied interests attack nat- ural gas lines as prejudicial to de-	lution problem to Eastern Coal, Apr : Regulation	CO	oreakage, Dec
fense program, Jan	Anthracite price ceiling is set, then revoked by Henderson, Oct	148 U Co	al thickness compared with accidents inderground (A.I.M.E. meeting), Mar. 84 nverting mine excavations into safety hambers. D. J. Keenan. Mar. 868
Aug. 80 New England Conference on Anthracite	May	78 Cu	tter chain safety device dropped by lutch lever, Nov*68 st allaying discussed at National
Utilization Boston meeting, July	abolish abuses, Dec	73 Du	ast collector pulls coal dust into tube
P	Bituminous Coal Division refuses re- laxing of agency regulations, Aug Bituminous Coal Division reports that	88 Du	and sprays it with water, Jan *62 ust danger can be decreased to a ninimum. Walter Hornsby, Jan 64
P Pittsburgh Coal Mining Institute	Guffey-Vinson Act is working smoothly,	77	st in mine work discussed by Coal Mining Institute, Jan
Meeting, Nov	Bituminous Coal Division to hold hear- ing on maximum coal prices, Sept Bituminous price ceiling hearing under	71 Fa	nine. A. C. Peterson, Nov
Election of officers, Apr*133	way, Oct. Code violations considered by Bitumi- nous Coal Division, Oct	1	ectric switch device to prevent burns, reb. *98 re hazard sharply reduced by rock-
Power Generation Boiler-water treatment with mixing plant, July	15th Bituminous District meeting dis- cusses new coal code of prices, Jan Gould, G. B. named as advisory con- sultant on coal prices in Fuel Section,	78. Fi	re in coal cutting and gob fires re- ported on by British Research Board, Sept
twin-engine power. J. H. Edwards. Aug. *43 Modernizing power plant of Davis Coal	Sept	*79 F1	uid brakes control monitors and sup- ply trips at Bergoo, Aug*54 uses in mines studied by Southern Il-
& Coke. H. G. Burrill, Sept	Guffey-Vinson Act extension is favored by the bituminous industry, Feb, Guffey-Vinson Act — move to extend, Feb.	49 109 Gr	Ilnois Mining Electric Group, Dec 118 ass guard grinding wheels. July *70 eek-letter mine-safety society organ-
Preparation Anthracite progresses in mining and	Research Battelle Memorial Inst. again expands,	H	azards incidental to mechanical load- ing discussed by Inspectors at Blue-
preparation in 1940, Feb	Aug. Coal research in progress or completed in 1940 or planned for 1941, Feb Leaders in coal research convene at	*86 H	field, July 74 olimes Association awards bestowed for rescues, May 88 olimes certificate for accident reduc-
Arkansas cooperative washery. Charles Lambur, Jr., Aug	Battelle, May	*84	June*101
Arkansas preparation plant dedicated to St. Louis, Feb	liams, Feb. Stove makers support research to improve coal heating, Sept University of Maryland offers fellow-	88 H	ow intake air is filled with methane by falls of barometer or of rock, Oct. 125 ow operations will be conducted under federal inspection law.
Canadian strip mine stores coal for win- ter market. R. D. Hall, Jan *60	ships for research, June	102 H	federal inspection law. J. J. Forbes, Dec
Centrifugal dryer recovers 10-mesh car- bon from slurry. J. H. Edwards, Nov. *47 Cleaning costs discussed at A.M.C., June 45 Consolidation Coal Co. No. 32 plant in-	Aug. Rocky Mountain Coal Mining Institute Election of officers, Aug	70	parative safety, Apr. 94 ow to inculcate safety to mine work- ers at their working places. W. D. Walker, May
cludes washing, stoker and blending facilities. I. A. Given, Dec	Report of Denver meeting, Aug Roebling's Sons Co., J. A. celebrates 100th	11	mine-rescue training. D. J. Keenan,
by Illinois Engineers, Oct	anniversary, Oct	J	June
Dustproofing coal with oil requires right choice, Aug 62	Avella, Pa. mine controls draw slate by systematic timbering and conveyor loading. Claude Ferguson, Mar	14	meet, Nov*84
Hard and soft coal preparation (A.I.M.E. meeting), Mar	Damp mine roof rock kept from spalling by spraying with coal tar paint. G. M. Brown, May	31	Dec. *96 ajor causes of coal-mine injuries and preventive measures, Dec
new preparation plant, Jan	Discarded shaker chutes keep old under- pass intact, Apr	*100	proved safety records. J. J. Forbes.
Loader-conveyor slope delivers to wash- er at North Diamond, J. H. Edwards,	Gunite used in winter to support the roof (A.I.M.E. meeting), Mar	89 M	W. J. Jenkins, J. D. A. Morrow, Apr. *83 lechanization hazards combatted. B. J. F. Conrad, Nov 62 lount Hope, W. Va. safety station ap-
July	Jeffers, May How to bar down loose top rock in com- parative safety, Apr		elms mine disaster is reported by Ru-
New preparation facilitiesJan. 94, Feb. 113, Mar. 96, Apr. 112, May 95, June 111, July 97, Aug. 94, Sept. 88, Oct. 148, Nov. 88, Dec	How to preserve roof discussed by A.I.M.E. and A.S.M.E., Dec. Painting and safety of roofs discussed at Pittsburgh meet, May	102 1	940 shows safety record hard hit in soft coal: hard-coal rate down R R
Oleic acid might help to drain fine coal, Jan. (e)	Pillow block with cutout helps tim- berman, July	*68	Sayers, Feb. *69 Phio mine safety law goes into effect, Oct. 153
Sampling every car (Illinois Mining Institute meeting), Dec	Proper roof support is vital to loading efficiency, Apr. Shawmut Mining Company issues in-	63 F	Plenty of air employed in fighting fires, Mar
rock removal, Oct	structions for timberman, June Timber caps strengthened with old wire rope, Feb	79 P	Points which might be considered in promoting safety in mines, Dec 66 Proper roof support is vital to loading
Slackline cableway excavator to clean out ponds and dispose of slurry, Nov. *70	Timber charts to indicate to foreman size of timber needed for safety, Mar	69 F	Railing set in concrete guards fire hy-
Standards for Dustiness of Coal and Coke favored by A.S.T.M., Apr 132 Surface purparation in Eastern Ohio	Warning post shows roof movement.	*94 F	drant, Aug*61 Receptacles in which shotfirers and miners can carry explosives into coal
Surface proparation in Eastern Ohio No. 8 field, Oct. Surface proparation is abled by mobile loaders. Apr. 61 Truck and rail loading efficiency in	S	I	Rock dust at repair jobs reduces spark
Truck and rail loading efficiency in preparation plant at Washington mine.	Safety Accident prevention signs to be stand ardized, June	- 110	menace, Dec
1. A. Gyens May	drdized, June	. 116	Board, Sept

Rock-dusting will be in vain if coal dust is ill covered. Nov	Missouri mine works coal in benches and leaves divider rock in pit, Jan *43	Track extended at working face by slid- ing section, Sept
is ill covered, Nov. 63 Safety and first aid. Benjamin Lohr, June	Oklahoma strip mine develops pinning machine to raise lump yield. Charles	Track items fabricated by welding methods, Sept*65
Safety demands reorganization and re- search—A.M.C., June	Lambur, Jr., May.,*43	Track-shifting attachment, May *74 Trolley-pole gouge completes pole quick-
Secretary of N.C.A. deplores federal mine inspection bill, Mar 90	Robin Hood No. 3 strip mine recovers 34-in coal seam, Aug	ly, July*66 Truck and rail loading efficiency in prep-
Self-rescuer case has holder, Sept *68 Sentinels of Safety trophy awarded to	Shovel-dipper electric heating units cut winter-time losses. J. W. Bullington, Sept. *53	aration plant at Washington mine. I. A. Given, May*61 Two hundred tons with fourteen men
Union Pacific Coal Co., Nov 97 Shawmut Mining Company issues in-	Strip reclamation in Eastern Ohio No. 8 field, Oct*114	using shuttle cars made from dump
structions for timberman, June 79	of all coal-producing methods, Apr 64	trucks. I. A. Given, Sept*40 V-belt cable-reel drive on locomotive cuts
lid, Feb*104	Texas lignite strip mine averages 19 tons per man-day. Charles Lambur, Jr.,	maintenance, Oct*138
pen, Dec*52	Mar*60 Time-study survey highspots value of	
Traveling safely in shafts, slopes and planes. Thomas Allen, Aug 56	effective coordination, Apr 57	U
U. S. Bureau of Mines Safety Board decisions, Dec	Supplies Castings stored by groups in special	United Mine Workers
Utah occupational disease study brings suggested controls, Mar	racks, Nov	Alabama strike settled on basis of me- diation board findings, Nov
Ventilation improvements assure safety to life and investment. J. H. Dick-	Grab unloads heavy timber, Feb *102	Appalachian wage contract signed by Southern operators, July 71, Aug 67
erson, Mar*44 Ways of leaving a mine during a mine	<u>:</u>	Captive mine strike called off by Lewis, Nov
fire, Oct*127 West Kentucky first-aid meet, Jan *86 West Virginia court upholds safety shut-	T	Captive mines and the strike, Nov. (e), 42 Labor members of coal boards named,
down, Mar	Tennessee Valley Authority	Aug 93 Pennsylvania anthracite dues revolt end-
meet, May	Morgan loses job battle, Jan. 104, Apr 122	ed. Nov
cause maximum violence in a mine explosion, Sept 60	Transportation	Aug
What the new federal mine inspection law means to coal mining. R. R.	Accident frequency rate for haulage is 220; better car design would lower	Utilization American Coal Foundation offers coop-
Sayers, Dec 63	rate. C. L. Lutton, Aug 56 Accurate records vital to mechanical	erative plan for promoting solid-fuel uses, Oct
Sales Agencies Indiana Coals, Inc. provisionally ap-	mining efficiency. A. G. Green, Aug *45 Automatic man-trip drag held up by	Anthracite Advisory Board to promote utilization, May 93
proved as marketing agency, July 97 Relaxing of agency regulations refused	rope, Apr*100 Automobile with disk wheels to use on	Anthracite ash is a marvelous land-bet- terment agent, Jan. (e)
by Coal Division, Aug	Bell mounted on cage top warns of ap-	Experiments with breaker waste for building materials, July 99
panies, Sept 91	proach, Aug. *64 Belt vs. mine-car transportation (table)	Filter agent can be made from refuse, Apr
Smoke Prevention Birmingham tries experiments to elimi-	discussed at American Mining Con- gress, June	The humble stove, Sept. (e) 36 New England Conference on Anthracite
nate smoke, Mar 107	Big cars and transfer hopper at Kings mine increase loader output. I. A. Given, May	Utilization, July 94 Semet-Solvay byproduct ovens being re-
Chemists meet at St. Louis seeking ways to cleanse air smoke and dust. May. 84 Illinois Mining Institute discussed smoke	Big mine cars aid loaders, cut costs at Pittsburgh Coal. V. D. Hanson, July *47	habilitated, Feb 110
control, July	Bumper plates reinforced by face plates, Oct. *130	
smoke evil, Mar	Cars dumped automatically without tip- ping, Mar. *76	V
open hearing June	Cars held on grades by spring dog, Mar. 78 Charging equipment installed on battery	Ventilation
Oct	locomotives, Apr*100 Drill truck moved about by cutting ma-	Air directions are too frequently re- versed where auxiliary fans are ill-
coal is Middle West problem, Apr 137 Southern Illinois Coals demonstrates that	chine, July	placed, Jan
coal can be burned smokelessly, Feb. *123 Western Pennsylvania Coal Operators'	Fluid brakes control monitors and supply trips at Bergoo, Aug	spirable air, June 79 Better airways and fans assure safety
Assn. prepares smoke report, June (e) 36	Hand-powered scooter, Dec	to life and investment. J. H. Dickerson, Mar
Southern Appalachian Industrial Exhibition, Oct	loader, Feb*98 High-capacity track-mounted loading	Blackdamp is changing as time pro- gresses, July
Southern Illinois Mining Electric Group	machines at Little Betty. I. A. Given, July *37 How to apply gunite to roof. C. W. Jef-	air; ways that will keep mine air
Expense-cutting maintenance ideas expounded at West Frankfort meeting,	iers, May 65	fresh, Aug 57 Burlap suited for brattice work by treat-
Nov. 74 Inspects Grand Tower power plant, July *95	Large shuttle cars running on rails for safety and economy. D. W. Jones,	ment with chemical, Jan
Meeting in West Frankfort, Ill., Dec 118 Report of meeting, Jan. 92, Feb. 110,	Loader-conveyor slope delivers to wash-	for ventilating face (Mine Inspectors' Institute), July
Apr 127	er at North Diamond. J. H. Edwards, July*40 Locomotive battery boxes strengthened	Dust problem solutions by an anthracite mine. A. C. Peterson, Nov
Stokers Anthracite Industries' draft throttle for	by braces, Nov	Eastern Ohio No. 8 field, Oct
domestic furnace, June	handle, July*68 Locomotive remodeled to replace resist-	Getting full value from air costs by proper ventilating system. J. H. Dickerson, May
Nov		How intake air is filled with methane by falls of barometer or of rock, Oct. 125
stokers, Jan	Locomotives turned and rebuilt for safe- ty and economy, Kings mine, May *69	How to use auxiliary fans in highly
Coal Co., June		mechanized mines. J. H. Dickerson, Jan
stoker course, Jan	No loading equipment can be more effi-	mines, Apr. *95 Loading efficiency needs good ventilation,
Sales of domestic coal stokers vs. oil burners by monthsJan. 78.	which serves it, Apr	April
Feb. 110, Mar. 86, Apr. 106, May 80, June 90, July 85, Aug. 72, Sept. 74, Oct. 142, Nov. 73, Dec	sales by advertising. J. H. Edwards, Mar*62	yet usually are in worst condition, Feb
Oct. 142, Nov. 73, Dec 10	dumping set-up, Jan*70	Question on air moved and power need- ed, Oct
Stokers Manufacturers Association White Sulphur Springs meeting, July 8	Rail straightener, May*70 Reflector buttons in wood make trip	Savings inherent in better mine ventila- tion (Nova Scotia meeting). Aug *72
Stripping	Rerailer made more efficient by raising	What mixture of firedamp and air will cause maximum violence in a mine ex-
American Mining Congress discussed	outside rails, Feb*106 Rope haulage simplified by roof brack-	plosion, Sept 60
Big Bend No. 1 jumps output with	Rope wear can be reduced by proper	
preparation revisions and electric dragline, July*5		W
Bituminous strippers install shovels, draglines and large haulage units in	in thin-coal mines in 1940, Feb *67 Safe travel in shifts, slopes and planes.	War
1940, Feb	Thomas Aller, Aug 56 Shuttle cars, rubber-tired, and bigger	Coal men aid British relief, Sept 89 Water treatment plant for drinking sup-
Canadian strip mine stores undisturbed	mine. Shott & Bottomley, May. *39	ply, W. Va. J. E. Howard, Sept *50
coal for winter market. R. D. Hall, Jan		Welding
tions, Oct		Broken stud bolts removed by welding on pipe, Feb*100
ping, Oct	Steam-hoist operation checked by special recording meter, Mar	Good design reduced chances of cracked welds, Aug *64
pointed. Oct		by gouging, Dec*98
new preparation plant, Jan*! Kansas strip mine modernization,	Switch points protected by metal guard, Mar. *78	Low mounting for arc-welder made with stub axles, Jan*74
Charles Lambur, Jr., Nov*	riack anthored by rods in holes in	Machining precedes welding at Piney

Minimum physical properties of welds, Apr	Three rails welded together make steel timber legs, Apr*102 Track items fabricated by welding meth-	Report of Huntington meeting, July *92 Report of Morgantown meeting, Dec*114
Peening of welds bring better results,	ods, Sept *65 Worn crusher-roll teeth rebult by arc	Western Kentucky Mining Institute
Oct. *134 Resistance welding lessens shaking-pan repairs at Hudson Coal, Jan. *55	welding, Feb	Madisonville meeting, Mar*106
Rings and teeth welded on in reclaiming gears, Apr. *95	inspectors named, Sept 90	Western Pennsylvania Annual Regional Safety Engineering Conference, May 80
Stud-removal by arc-welding, Sept *65 Teeth shaped hot to repair gear, May 74	West Virginia Coal Mining Institute Election of officers, Dec	Wyoming Pocahontas Coal Mining Insti- tute is organized, Jan 94
MINI	E AND COMPANY IN	DEX
Acadia Gool Co	Truck and rail loading efficiency in preparation plant at Washington mine.	Castings stored by groups in special racks, Nov
Acadia Coal Co. Increases wages, Aug	I. A. Given, May *61 Clinton Block Coal Co.	Grounded gearmotor at Dun Glen No. 11, Oct*138
Bradford commissary burns, Feb 129 To add 25 byproduct ovens, Jan 82	Conveyor crews average nearly 16 tons per man. W. B. Bannister, Nov. *57	Machining precedes welding, Oct*132 Preparation facilities expanded, Apr 137 Scalping section on shakers facilitates
Allegheny Pittsburgh Coal Co. How block pillars are drawn clean by	Clover Darby Coal Co. Plant opening, Aug	rock removal, Oct*130 Ten-hour job cut by two by hole in cast-
machines, Feb	Contractor reopens drift, Aug 90 Colorado Fuel & Iron Corporation	Welding results bettered by proper peen-
screen plates used for racks over oil	Smoking mandrel with torch frees it from babbitt, Apr	Harry L. breaker to be replaced by new
spill cans, Mar	Consolidated Coal Co. Increases power production, Oct 177 Consolidation Coal Co.	structure, Feb
Atlas Coal & Dredge Co. Plan approved to mine coal in Ohio River bottom, Apr	Awarded safety plaque at Big Sandy Elkhorn Coal Mining Institute, Apr. *112	by advertising. J. H. Edwards, Mar *62 Hayden Coal Co.
Avrehiro Patoka Collieries Cornoration	No. 32 plant includes washing, stoker and blending facilities, Dec*45	Unemployment awards fought by the Security Bureau, Sept 82 Heisley Coal Co.
Boom maintenance. M. A. Walsh, Nov. *61 First car of Chinook coal shipped to Indianapolis, Feb	Schedule of maintenance followed at Owings plant, Dec	Locomotive controller guard drops over handle, July
Ayrshire-Patoka Coal Co. Tipple destroyed by fire, June 118	duced, Dec*94 Consumers Lignite Co.	Five thousand volt cables terminate in
в	Develops successful method of briquet- ting, Nov	condulet fittings, Aug*64 Metering for second mine based on house
Bell & Zoller Coal & Mining Co. Battery boxes strengthened by braces	Continental Coal Co. Brock mine passes to new owner, Mar 88 Properties on sale, Feb	units, June*86 High Point Coal Co. Tennessee property doubles tons per man
and plates, Nov	D	with conveyors. George Henderson, Jan
chine, July*70 Mixing plant facilitates boiler-water treatment, July*65	Davis Coal & Coke Co.	Hillman Coal & Coke Co. Leases Kennedy mines, Dec 108
Power transmission line saves on copper. Sept*66	Modernizing power plant to meet changing loads and shorter hours. H. G. Burrill, Sept. *55	Hillsboro Coal Co. closes fifty-year old mine, June 196 Hot Spot Coal Co.
Truck with loader head rebuilt, Dec. *96 Ben-Hur Coal Co. Modern equipment gives new life to thin-	Dawson Coal Co. Rerailer made more efficient by raising	Resumes production, Dec
easm Blackstone mine Gene Taylor.	outside rails, Feb*106 Dearth coke plant leased, Jan97	Crusher roll teeth rebuilt by arc welding, Feb
Sept*37 Bicknell Coal Co. Preliminary report on explosion, July. 96	DeBardeleben Coal Corporation Coke ovens to be refired, Feb 125 Sipsey mine to be rehabilitated and re-	Discarded shaker chutes keep old un- derpass intact, Apr. *100
Big Bend Collieries, Inc. Output jumped by modern electric dragline and preparation revisions at	opened, Nov	Dust problem solutions. A. C. Peterson. Nov. 63 Grab unloads heavy timber at 7,500 tons
Big Bend No. 1, July*50 Binkley Mining Co.	Average output at Axial, Colo, is 200 tons with 14 men. I. A. Given, Sept. *40	Job-training program embraces both su-
Split seam mined in 2-ft, and 8-in, benches and divider left in pit at Mis-	Duncan, Leo, Mining Co. Acquires coal tracts, Dec	pervisors and workers. Cadwallader Evans, Jr., Apr*79 Metallizing. R. D. Hall, Sept*45
souri strip, Jan*43 Black Gold Coal Co. formed, Oct	Mining property sold, Dec 117 Dye Coal Co.	repairs, Jan *55
Black Hawk Coal Co. Has new tipple, Dec	Bone on top of coal seam removed by scarifier, Oct*129	Rewards offered safe workers, Feb 129 Hume-Sinclair Coal Mining Co.
Mar 90 Blue Diamond Coal Co.	E	Maintenance efficiency increased by ma- chine shop serving eight mines. Charles Lambur, Jr., July*45
To operate Virginia Iron, Coal & Coke coal mines, July	Eastern Coal Corporation Spiral commutator grooves improved	Hunter Coal Co. Leases coal tract in Pennsylvania, July. 100
One loader and one shuttle car equals fifteen tons per miner, July*56	maintenance, Jan. *72 Tar from burning refuse pile brings pol- lution problem, Apr	1
Coke ovens refired, Mar 110	Test hole which leaked gas grouted from coal bed, Jan*69	Illinois-Missouri Coal Co. Gulf, Mobile & Ohio R. R. to operate as
Butler Consolidated Coal Co. How to inculcate safety to mine workers at their working places. W. D. Walk-	Eastern Ohio No. 8 field Electric stripping, Oct*103	a captive mine, Sept
er, May	Electrification, Oct. *85 Face preparation, Oct. *72 Maintenance and supplies at deep mines	Mar. 96 Indiana Coals Corporation Relaxing of agency regulations refused
C	Maintenance and supplies at deep mines, Oct	by Coal Division, Aug 88 Industrial Coal & Iron Co.
Cambria Fuel Co. Bolt and hasp make lock for welded bit	Operating safeguards, Oct*101 Power and maintenance at electric strip-	Handling shovel cables eased by skid, Oct. *134 Wheel removal facilitated by two-
box, May*74 Cutting machine lubricated through hole	pings, Oct. *106 Shaker-conveyor mining, Oct. *65 Small-unit stripping, Oct. *109	wheeled dolly, Oct*136 Inland Steel Co.
in shaft, May*69 Safety device for electric switch designed to prevent burns, Feb*98	Strip reclamation, Oct*114	Safety fused junction boy for mechan-
Somerset County operation is planned, Oct	Surface preparation, Oct	The state of the s
Cameo Coal Mining Co. incorporated, Dec. 130	Surface preparation, Oct. *117 Transportation, Oct. *77 Ventilation and drainage, Oct. *81	ical mining, Nov. *72 Interstate Coal Co. to be reorganized, June 106
Canadian Collieries, Ltd.	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation	Island Creek Coal Co. Mines Nos. 15 and 16 to be reopened.
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation . Awarded safety plaque at Big Sandy Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co.	Island Creek Coal Co. Mines Nos. 15 and 16 to be reopened, Aug. 72
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation Awarded safety plaque at Big Sandy Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co. Tipple contract awarded, Jan. 94	Island Creek Coal Co. Mines Nos. 15 and 16 to be reopened, Aug. 72 Jeddo-Highland Coal Co.
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation . Awarded safety plaque at Big Sandy Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co. Tipple contract awarded, Jan. 94 F Frick, H. C. Coke Co.	Jeddo-Highland Coal Co. Stockton mine being reopened, Mar 96 Jefferson Coal & Coke Co. Conveyor loading in Avella, Pa. holds
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation . Awarded safety plaque at Big Sandy Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co. Tipple contract awarded, Jan. 94 F Frick, H. C. Coke Co. Beehive ovens to be renovated, Feb. 122 Rescue station burns, Apr. 122 To reopen mines, Oct. 159	Island Creek Coal Co. Mines Nos. 15 and 16 to be reopened, Aug. 72 Jeddo-Highland Coal Co. Stockton mine being reopened, Mar. 96
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation *81 Elkhorn Coal Corporation *81 Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co *94 F Frick, H. C. Coke Co Beehive ovens to be renovated, Feb 122 Rescue station burns, Apr 122	Jeddo-Highland Coal Co. Mines Nos. 15 and 16 to be reopened, Aug. J Jeddo-Highland Coal Co. Stockton mine being reopened, Mar 96 Jefferson Coal & Coke Co. Conveyor loading in Avella, Pa. holds drawslate and reduces operating costs. Claude Ferguson, Mar *47
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation Awarded safety plaque at Big Sandy Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co. Tipple contract awarded, Jan 94 F Frick, H. C. Coke Co. Beehive ovens to be renovated, Feb. 122 Rescue station burns, Apr 122 To reopen mines, Oct 159 Frontier Channel Coal Co.	Jeddo-Highland Coal Co. Stockton mine being reopened, Mar
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation	Juliand Creek Coal Co. Mines Nos. 15 and 16 to be reopened, Aug. J Jeddo-Highland Coal Co. Stockton mine being reopened, Mar 96 Jefferson Coal & Coke Co. Conveyor loading in Avella, Pa. holds drawslate and reduces operating costs. Claude Ferguson, Mar. Keystone Coal Co. Automatic man-trip drag held up by rope, Apr. Knox Consolidated Coal Corporation Broken stud bolts removed by welding
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation Awarded safety plaque at Big Sandy Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co. Tipple contract awarded, Jan. 94 Frick, H. C. Coke Co. Beehive ovens to be renovated, Feb. 122 Rescue station burns, Apr. 122 To reopen mines, Oct. 159 Frontier Channel Coal Co. Company changes hands, July 99 G Gage, Robert, Coal Co. Conveyor mining ups output. Charles Lambur, Jr., Sept. 946 Glen Alden Coal Co. *46 Glen Alden Coal Co. *46	Island Creek Coal Co. Mines Nos. 15 and 16 to be reopened, Aug. 72 Jeddo-Highland Coal Co. Stockton mine being reopened, Mar. 96 Jefferson Coal & Coke Co. Conveyor loading in Avella, Pa. holds drawslate and reduces operating costs. Claude Ferguson, Mar. *47 Keystone Coal Co. Automatic man-trip drag held up by rope, Apr. *100 Knox Consolidated Coal Corporation Broken stud bolts removed by welding on pipe, Feb. *100 Koppers Coal Co.
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation Awarded safety plaque at Big Sandy Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co. Tipple contract awarded, Jan. 94 Frick, H. C. Coke Co. Beehive ovens to be renovated, Feb. 122 Rescue station burns, Apr. 122 To reopen mines, Oct. 159 Frontier Channel Coal Co. Company changes hands, July 99 G Gage, Robert, Coal Co. Conveyor mining ups output. Charles Lambur, Jr., Sept. *46 Glen Alden Coal Co. Avondale colliery resumes work, Mar. 96 Greensburg-Connellsville Coal & Coke Co.	Island Creek Coal Co. Mines Nos. 15 and 16 to be reopened. Aug. J Jeddo-Highland Coal Co. Stockton mine being reopened, Mar 96 Jefferson Coal & Coke Co. Conveyor loading in Avella, Pa. holds drawslate and reduces operating costs. Claude Ferguson, Mar. *47 Keystone Coal Co. Automatic man-trip drag held up by rope, Apr. Knox Consolidated Coal Corporation Broken stud bolts removed by welding on pipe, Feb. Koppers Coal Co. Carswell blast considered as accident, Apr. Children to get clinic service. Invo. 117 Children to get clinic service.
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation	Island Creek Coal Co. Mines Nos. 15 and 16 to be reopened. Aug. J Jeddo-Highland Coal Co. Stockton mine being reopened, Mar 96 Jefferson Coal & Coke Co. Conveyor loading in Avella, Pa. holds drawslate and reduces operating costs. Claude Ferguson, Mar. *47 Keystone Coal Co. Automatic man-trip drag held up by rope, Apr. Knox Consolidated Coal Corporation Broken stud bolts removed by welding on pipe, Feb. Carswell blast considered as accident, Apr. Children to get clinic service, June 117 Children to get clinic service, June 117 Cutter chain safety device dropped by clutch lever. Nov.
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation *81 Elkhorn Coal Corporation *81 Awarded safety plaque at Big Sandy Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co *94 Frick, H. C. Coke Co 122 Rescue station burns, Apr 122 To reopen mines, Oct 159 Frontier Channel Coal Co 159 Frontier Channel Coal Co 99 G Gage, Robert, Coal Co 46 Gage, Robert, Coal Co 46 Glen Alden Coal Co 46 Glen Alden Coal Co 496 Greensburg-Connelisville Coal & Coke Co 400 Tube City Collieries merger, Feb 127 H Hammond Coal Co 40 Work started on new breaker, July 99	Island Creek Coal Co. Mines Nos. 15 and 16 to be reopened, Aug. J Jeddo-Highland Coal Co. Stockton mine being reopened. Mar. 96 Jefferson Coal & Coke Co. Conveyor loading in Avella, Pa. holds drawslate and reduces operating costs. Claude Ferguson, Mar. *47 Keystone Coal Co. Automatic man-trip drag held up by rope, Apr. *100 Knox Consolidated Coal Corporation Broken stud bolts removed by welding on pipe, Feb. *100 Koppers Coal Co. Carswell blast considered as accident, Apr. *117 Children to get clinic service, June 117 Cutter chain safety device dropped by clutch lever, Nov. *68 New recreation camp for children of mine employees opens, July \$98 Leases coal lands Mar.
Canadian Collieries, Ltd. Buys plant, Oct	Transportation, Oct. *77 Ventilation and drainage, Oct. *81 Elkhorn Coal Corporation *81 Elkhorn Coal Corporation *81 Elkhorn Coal Mining Institute, Apr. *112 Emerald Coal & Coke Co *94 Frick, H. C. Coke Co 94 Frick, H. C. Coke Co 152 Rescue station burns, Apr 122 To reopen mines, Oct 159 Frontier Channel Coal Co 159 Frontier Channel Coal Co 99 Gage, Robert, Coal Co 99 Gage, Robert, Coal Co 94 Glen Alden Coal Co 46 Glen Alden Coal Co 46 Greensburg-Connellsville Coal & Coke Co. Tube City Collieries merger, Feb 127 Hammond Coal Co 127	Island Creek Coal Co. Mines Nos. 15 and 16 to be reopened, Aug. J Jeddo-Highland Coal Co. Stockton mine being reopened. Mar 96 Jefferson Coal & Coke Co. Conveyor loading in Avella, Pa. holds drawslate and reduces operating costs. Claude Ferguson, Mar *47 Keystone Coal Co. Automatic man-trip drag held up by rope, Apr. *100 Knox Consolidated Coal Corporation Broken stud bolts removed by welding on pipe, Feb *100 Koppers Coal Co. Carswell blast considered as accident, Apr. *117 Children to get clinic service, June 117 Cutter chain safety device dropped by clutch lever, Nov. *68 New recreation camp for children of \$68

	Philadelphia & Reading Coal & Iron Co.	Somers Coal Co., J. H.
Koppers United Co. Acquires idle ovens, June	May lease coal land, June	Adapter for mounting hangers fits over pipe suspension, July *68
L	Suffolk colliery worked out, Apr 137 Pine Hill Coal Co.	Conveyor drives fabricated from truck transmission, Jan *74
Lattimer mines	Pine Knot and Thomaston collieries to	Mine feeder lines welded for better serv-
Ownership transferred, Feb	reopen, Sept 74 Pittsburgh Coal Co.	v-belt cable-reel drive cuts mainte-
Scholarship winners chosen, Sept 86	Awarded Holmes certificate for accident	nance, Oct*138
Lehigh Valley Coal Co. Exeter breaker destroyed by fire, Feb 122	reduction, June*104 Banning No. 2 mine reopens, Aug. 89;	South-East Coal Co. To reopen Millstone mine, Dec 134
Franklin colliery leased to operator, June	Sept 80 Better trained personnel needed for	Southeastern Fuel Co. Alabama Power Co. acquires coal hold-
Lethbridge Collieries	modern coal mining. J. B. Morrow,	ings, July 95
Lignite beds narrow, coal cleaned by spirals. R. D. Hall, Mar	Apr*55 Big mine cars aid loaders, cut costs.	Southern Pines interests to open mine, Aug 90
Linton-Summit Coal Co.	V. D. Hanson, July*47	Stover Smokeless Coal Co.
New Harmony tipple arc-welded, Oct 176 Little Betty Mining Corporation	Carbon dioxide used to extinguish small mine fires. Rose & Skinner, Mar *59	Organization formed to operate Stone- wall mine, Oct
High-capacity track-mounted loading machines. I. A. Given, July*37	Champion miner and Queen of Coal picked during picnic, Aug*88	Sunrise Coal Co. Air shaft sunk to coal without hoist or
One-man dumping installation handles	Pittsburgh & Midway Coal Mining Co.	pump, Dec*92
refuse, Jan*72	Strip mine modernization. Charles Lam- bur, Jr., Nov., *52	Sunshine Anthracite Coal Co. Clarksville mine resumes operation, Apr. 112
M	bur, Jr., Nov	Susquehanna Collieries Co.
Mahanoy Valley Coal Co. Preparation plant to be built at Gilber-	Acquires idle plants, Apr	Electric sand dryer for mines uses aluminum elements, Mar
ton, Mar 96	Hand-powered scooter, Dec*92 Porter mine runs tram line to Warrior	Plans expansion, July
Maumee Collieries Co. Mine No. 26 opens, Aug 90	River, Dec	June 106
Maureen Coal Co. Portable "radio" sets provide mine com-	Reflector buttons in wood make trip	Sycamore Coal Co. New coal mine in Pike County to be
munication via trolley. I. A. Given.	markers, Oct*136 Princess Elkhorn Coal Co. organized, Feb. 109	opened, Aug 92
Jan*52 McAlester Fuel Co.	Princeton Mining Co.	T
Acquires Windsor Coal stock, Apr 116	Charging equipment installed on battery locomotives, Apr*100	Tasa Coal Co. to start new strip operation, Oct
Texas lignite strip mine averages 19 tons per man-day. Charles Lambur, Jr.,	locomotives, Apr*100 Clutch installation eased by special lifters. Apr. *102	Tennessee Coal Iron & Railroad Co.
Mar*60 Mead Coal Co., C. H.	lifters, Apr*102 Greasing loaders at the Kings mine.	Captive miners to receive unemploy- ment relief? Mar
Tipple burns, Oct	Guiney & Given, Mar*51 High-voltage cables suspended in loops	Employees receive medals for long serv-
Collector-ring assembly altered to im-	made of old belt. Apr*104	ice, Aug
prove shovel, July	Keeping air on the move, Apr*95 Loader output lifted by big cars and	Out-of-work benefits denied to em-
Cleaning equipment in the Ol'Elliott preparation plant, Feb	transfer hopper at Kings mine. I. A. Given, May*47 Locomotives turned and rebuilt for	ployees by Supreme Court, July 94 Suspension was labor dispute says court,
Shaft mine modernizes to meet market	Locomotives turned and rebuilt for safety and economy Kings mine, May *69	Jan 104
demands. Charles Lambur, Jr., Jan. *48 Morgan, F. C. Coal Co.	Portable pumping units facilitate move-	United Mine Workers elected bargaining agency, Aug 94
Illinois coal tract to be developed, Sept. 81	ment of transformers at Kings mine, May*70	Tennessee Products Corporation Coke output to be doubled, July 94
New stripping operation nearly ready, Dec 127	May Pump used as drill tester; pump-testing oil-heated, Mar. *73	Truax-Traer Coal Co.
Signs with United Mine Workers, Feb., 129 Morgan Mine	Rings and teeth welded on in reclaiming	Shovel-dipper electric heating units cut wintertime losses. J. W. Bullington,
Bar stock split to make cutter-chain	gears, Apr*99 Single-conductor cables used on cutters	Sept. *53 Tube City Collieries, Inc.
lock, Feb*100 Mt. Olive & Staunton Coal Co.	and drills, Mar	Merges with Greensburg-Connellsville Coal & Coke Co., Feb
Cleaning of ponds and disposal of slurry solved by slackline cableway excava-	cial recording meter, Mar *74	Turkey Gap Coal & Coke Co.
tor, Nov*70	Tilting rack for barrels eases handling, Apr*102	Safety shooting reel requires use of con- nection key, Jan*69
Mulberry Hill Coal Co. Coking plant planned, Feb 122	Providence Coal Mining Co. United Mine Workers cited as sole bar-	nection key, Jan
	gaining agent Fob	TI.
N	gaining agent, Feb	Union Colliery Co.
National Coal Co.	Pryor Coal Mining Leads Colorado mines in safe operation,	Union Colliery Co. Portable substation, Aug
National Coal Co. New preparation plant meets competi-	Pryor Coal Mining Leads Colorado mines in safe operation, Apr. 137	Portable substation, Aug
National Coal Co. New preparation plant meets competition at Iowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Pryor Coal Mining Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at Iowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. *61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr. 137 Pursglove Coal Mining Co. Fire destroys tipple, July. 95 Pyramid Coal Corporation Sesser mine is taken over, Sept. 91 Rail & River Coal Co.	Portable substation, Aug. *61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Pryor Coal Mining Leads Colorado mines in safe operation, Apr	Portable substation, Aug. *61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. *61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Pryor Coal Mining Leads Colorado mines in safe operation, Apr. 137 Pursglove Coal Mining Co. Fire destroys tipple, July 95 Pyramid Coal Corporation Sesser mine is taken over, Sept. 91 Rail & River Coal Co. Cables purchased in sections with terminals soldered on, Oct. 129 Rubber-belting cushion protects cable, Oct. 130 Raleigh Coal & Coke Co. Cause of explosion, Mar. 90 Republic Steel Corporation	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr. 137 Pursglove Coal Mining Co. Fire destroys tipple, July. 95 Pyramid Coal Corporation Sesser mine is taken over, Sept. 91 Rail & River Coal Co. Cables purchased in sections with terminals soldered on Oct. 129 Rubber-belting cushion protects cable, Oct. 130 Raleigh Coal & Coke Co. Cause of explosion, Mar. 90 Republic Steel Corporation Coke ovens rehabilitated, Apr. 137 Loading machines mine selectively at	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July 100 Greek-letter mine-safety society organized, Apr. 130 McAuliffe, president, honored by Rock Springs, Jan. 90 New structure added, June. 109 Old Timers' Association has reunion, Aug. 67 Sentinels of Safety trophy captured for sixth time, Nov. 30 Track extended at working face by sliding section, Sept. 65 United Electric Coal Co. 5 Starts new electric shovel, Oct. 163 Washery facilities expanded, Feb. 120
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July 100 Greek-letter mine-safety society organized, Apr. 130 McAuliffe, president, honored by Rock Springs, Jan. 90 New structure added, June 109 Old Timers' Association has reunion, Aug. 67 Sentinels of Safety trophy captured for sixth time, Nov 97 Track extended at working face by sliding section, Sept. 65 United Electric Coal Co. 163 Washery facilities expanded, Feb. 120 United States Coal Co. 120
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr. 137 Pursglove Coal Mining Co. Fire destroys tipple, July. 95 Pyramid Coal Corporation Sesser mine is taken over, Sept. 91 Rail & River Coal Co. Cables purchased in sections with terminals soldered on, Oct. 129 Rubber-belting cushion protects cable, Oct. 130 Raleigh Coal & Coke Co. Cause of explosion, Mar. 90 Republic Steel Corporation Coke ovens rehabilitated, Apr. 137 Loading machines mine selectively at Sayreton, Ala. I. A. Given, Mar. 39 Sayre mine to be reopened, Oct. 162 Virginia mine is rehabilitated, Mar. 103; June 104 Rock Forge, W. Va. coal mine to be reopened, Apr. 126	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July 100 Greek-letter mine-safety society organized, Apr. 130 McAuliffe, president, honored by Rock Springs, Jan. 90 Old Timers' Association has reunion, Aug. 67 Sentinels of Safety trophy captured for sixth time, Nov 97 Track extended at working face by sliding section, Sept. 65 United Electric Coal Co. Starts new electric shovel, Oct. 163 Washery facilities expanded, Feb. 120 United States Coal Co. How to apply gunite to roof. C. W. Jeffers, May 65 Utilities Elkhorn Coal Co. New mine at Esco, Ky. to be opened, Aug. 67 To open new mine, Dec. 135 Valier Coal Co. Cooling with filtered air helps hoist motor, May 77 Portable substation, Aug 67 Uriginia Iron, Coal & Coke Co. Blue Diamond Coal Co. to operate com-
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July 100 Greek-letter mine-safety society organized, Apr. 130 McAuliffe, president, honored by Rock Springs, Jan. 90 New structure added, June. 109 Old Timers' Association has reunion, Aug. 67 Sentinels of Safety trophy captured for sixth time, Nov. 67 Sentinels of Safety trophy captured for sixth time, Nov. 66 United Electric Coal Co. 65 Starts new electric shovel, Oct. 163 Washery facilities expanded, Feb. 120 United States Coal Co. 120 How to apply gunite to roof. C. W. 126 United Elkhorn Coal Co. New mine at Esco, Ky. to be opened, Aug. 67 To open new mine, Dec. 135 Valier Coal Co. 61 Cooling with filtered air helps hoist motor, May 77 Portable substation, Aug. 67 Virginia Iron, Coal & Coke Co. Blue Diamond Coal Co. to operate company's mines, July 97
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 661 Union Pacific Coal Co. Construction of new buildings at Clark mine, July
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July 100 Greek-letter mine-safety society organized, Apr. 130 McAuliffe, president, honored by Rock Springs, Jan. 90 Old Timers' Association has reunion, Aug. 67 Sentinels of Safety trophy captured for sixth time, Nov 97 Track extended at working face by sliding section, Sept. 65 United Electric Coal Co. Starts new electric shovel, Oct. 163 Washery facilities expanded, Feb. 120 United States Coal Co. How to apply gunite to roof. C. W. Jeffers, May 65 Utilities Elkhorn Coal Co. New mine at Esco, Ky. to be opened. Aug. 67 To open new mine, Dec. 135 Valier Coal Co. Cooling with filtered air helps hoist motor, May 77 Portable substation, Aug 67 Virginia Iron, Coal & Coke Co. Blue Diamond Coal Co. to operate company's mines, July 97 Walter Bledsoe & Co. Cutting through rock fault done with special aids, Feb. 104 Warner Collieries Co. Officers named, May 82
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July 100 Greek-letter mine-safety society organized, Apr. 130 McAuliffe, president, honored by Rock Springs, Jan. 90 Old Timers' Association has reunion, Aug. 67 Sentinels of Safety trophy captured for sixth time, Nov. 97 Track extended at working face by sliding section, Sept. 65 United Electric Coal Co. Starts new electric shovel, Oct. 163 Washery facilities expanded, Feb. 120 United States Coal Co. How to apply gunite to roof. C. W. Jeffers, May 65 Utilities Elkhorn Coal Co. New mine at Esco, Ky. to be opened, Aug. 67 To open new mine, Dec. 135 Walter Coal Co. Cooling with filtered air helps hoist motor, May 66 Wulter Coal Co. Blue Diamond Coal Co. to operate company's mines, July 97 Walter Bledsoe & Co. Cutting through rock fault done with special aids, Feb. 104 Warner Collleries Co. Officers named, May 82 Weirton Coal Co. Byproduct ovens to be constructed, Mar. 198 Improvements at Isabella plant, Aug. 99
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July 100 Greek-letter mine-safety society organized, Apr. 130 McAuliffe, president, honored by Rock Springs, Jan. 90 New structure added, June. 199 Old Timers' Association has reunion, Aug. 67 Sentinels of Safety trophy captured for sixth time, Nov. 97 Track extended at working face by sliding section, Sept. 65 United Electric Coal Co. 163 Washery facilities expanded, Feb. 120 United States Coal Co. How to apply gunite to roof. C. W. Jeffers, May (11) Utilities Elkhorn Coal Co. New mine at Esco, Ky. to be opened, Aug. 67 To open new mine, Dec. 135 Valier Coal Co. Cooling with filtered air helps hoist motor, May 72 Portable substation, Aug. 67 Virginia Iron, Coal & Coke Co. Blue Diamond Coal Co. to operate company's mines, July 97 Walter Bledsoe & Co. Cutting through rock fault done with special aids, Feb. 104 Warner Collieries Co. Officers named, May. 82 Weirton Coal Co. Byproduct ovens to be constructed, Mar. Improvements at Isabella plant, Aug. 90 West Kentucky Coal Co. Hecla mine to start soon, Sept. 90 washer at North Diamond. J. H. Ed-wards, July 40
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July 100 Greek-letter mine-safety society organized, Apr. 130 McAuliffe, president, honored by Rock Springs, Jan. 90 Old Timers' Association has reunion, Aug. 67 Sentinels of Safety trophy captured for sixth time, Nov. 97 Track extended at working face by sliding section, Sept. 65 United Electric Coal Co. 163 Washery facilities expanded, Feb. 120 United States Coal Co. 163 Washery facilities expanded, Feb. 120 United States Coal Co. New mine at Esco, Ky. to be opened, Aug. 67 To open new mine, Dec. 135 Valier Coal Co. Cooling with filtered air helps hoist motor, May 76 Portable substation, Aug 76 Virginia Iron, Coal & Coke Co. Blue Diamond Coal Co. to operate company's mines, July 97 Walter Bledsoe & Co. Cutting through rock fault done with special aids, Feb. 104 Warner Collieries Co. Officers named, May 82 Weirton Coal Co. Byproduct ovens to be constructed. Mar. 168 Improvements at Isabella plant, Aug. 90 West Kentucky Coal Co. Hecla mine to start soon, Sept. 90 Loader-conveyor slope delivers to washer at North Diamond. J. H. Edwards, July 40 To open two new mines and later more mines, Dec. 135
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug. 61 Union Pacific Coal Co. Construction of new buildings at Clark mine, July
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug
National Coal Co. New preparation plant meets competition at lowa strip, Jan	Leads Colorado mines in safe operation, Apr	Portable substation, Aug

Windsor Coal Co. Coal stock acquired by McAlester Fuel Co., Apr	Wise Coal & Coke Co. Low mounting for arc-welder made with stub axles, Jan	Control board installed with more room in back, Oct. *129 Special drill mount eases boring of car bottoms, Oct. *134 Zenith Coal Co. Briggs Co. mine acquired, Sept 80
	AUTHORS' INDEX	
A LLEN. THOMAS. Safe travel in shafts, slopes and planes, Aug	Last-word truck and rail loading caps Washington preparation, May	Ware, Louis. Why not a coal man for A.I.M.E. president? Apr

